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Date: February 3, 4 and 5

Time: 10:00-4:00

Place: MSC

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Scientist tests blood substitute

LUBBOCK (AP) — A doctor at Texas Tech University's Health Sciences Center says he is working to perfect a derivative of cattle blood that can be used to replace human blood.

Dr. Mario Feola, a professor of surgery at the center, has been developing a solution using the hemoglobin of cattle blood as a human blood replacement. The solution can be used when no human blood is available to transfuse to a person in critical need of blood, he said.

The hemoglobin — a protein that carries oxygen to the body's cells — can be injected into a patient regardless of blood type and acts as a short-term substitute for human blood.

The solution will keep the patient alive for a few days until his own body rebuilds blood cells to a normal level, he said.

Cattle and human hemoglobin are very similar in molecular structure, and cattle hemoglobin carries oxygen even better than the human substance, Feola said.

Feola said the hemoglobin solution has been used successfully in experiments with mice, cats, rabbits and monkeys.

No adverse immunological reactions surfaced in the test animals, Feola said.

Feola said he hopes to obtain Food and Drug Administration approval within the year to begin testing the solution on humans.

While human blood can be stored no longer than several weeks, the hemoglobin solution can be stored in powdered form for months, he said.

State studies air pollution in D-FW area

DALLAS (AP) — State officials are studying the "brown cloud," a persistent layer of air pollution that doctors say endangers the health of Dallas-Fort Worth area residents.

To determine the smog's makeup and origin, the Texas Air Control Board is conducting a \$500,000 research effort called the "Brown Cloud Study."

The smog bank is different from smog layers over Los Angeles and Denver, where mountains trap the pollution, health officials said.

Smog in the Dallas-Fort Worth area occurs on cool mornings between October and March, when bright sun creates an air inversion in which warm air traps car exhausts, dust and other gases.

Experts say the brown cloud effect increases during windless periods, during which small fronts from the north block the prevailing winds from the southwest that otherwise would serve to cleanse the air.

Melvin Lewis, regional director of the air control board, said the cloud is growing.

"It used to look like a futuristic bubble over downtown," he said. "But now, it's not just over downtown. It's a blanket that covers the Dallas-Fort Worth area."

The first reliable results should be available in November, said Robert Brewer, who helped organize the study for the state agency.

Families take buyout offer, leave dangerous salt dome

MONT BELVIEU (AP) — More than 100 families have taken advantage of a petroleum industry buyout plan and moved off the salt dome beneath their homes.

But others who can't afford to move or weren't included in the offer remain in this Southeast Texas town.

They often congregated in an old feed and hardware store to gripe about the offer or discuss their diminishing community.

"I've lived atop 'the Hill' for 43 years," said Orland Forbus, 73, a retired mechanical employee. "It used to be a real nice place, but now it looks like a skeleton town."

The reason for the move lies beneath the town — a giant salt dome in which hazardous petroleum products are stored.

There have been evacuations and explosions, including one in November 1985 at an underground gas storage well that left two men dead and prompted an evacuation of the town's 1,700 residents.

Nine months ago, a group of companies made a \$20 million offer to 134 families and six churches to help them move off the dome.

Businesses were left out of the offer, as were 80 families who still had lawsuits pending against the companies. Another 60 families who wanted to move lived just outside the boundaries of the target area.

Of those included in the deal, 116

families and five churches accepted. One church and 18 families rejected the offer.

Many businesses left behind are feeling the pinch from the exodus.

"Our business is gone, I'll tell you that," Everett Soileau, owner of the

feed and hardware store, said.

do half the business we once

Eddie Harp, operator of an and body shop in his garage

rejected a \$57,000 buyout of his home because it didn't

compensation for his business

Sunshine Mining hopes its Golden Eagle will fly

DALLAS (AP) — Sunshine Mining Co. is hoping its fortunes will soar with the new Golden Eagle gold piece, which the company mines, refines, mints and markets.

Its earnings hampered by the slumping petroleum and silver mining businesses, Sunshine is the only company in the United States to see its coin through all phases of production.

Sunshine officials say the one-ounce Golden Eagle will be priced below what dealers are asking for the U.S. government's new American Eagle gold coin and Canada's Maple Leaf. Spot market gold prices currently range around \$15.

"We have sold a few hundred (Golden Eagle) coins, but it is only

just getting off the ground," William Davis, Sunshine's president of finance.

By contrast, almost 500 American Eagles were sold in the first two days after they were made available by the Mint last October.

The company says it will cover all phases of production, give it an edge in the gold coin market.

Sunshine's coin, milled at the company's mine in Western Nevada, is available in one-ounce coins and smaller sizes. Gold one-ounce Nevada mine is shipped to the company's refinery at Idaho, where it is refined to purity.

What's up

Monday

BRAZOS COUNTY RAPE CRISIS CENTER: will hold training sessions for new volunteers through Friday from 6:30 p.m. to 9 p.m. Call 776-RAPE for applications and information.

MSC SCONA: will meet at 8:30 p.m. in 206 MSC.

TAMU JUDO: will hold practice Monday, Tuesday and Wednesday from 7 p.m. to 9 p.m. in 236 G. Rollie White. New members are welcome and no experience is necessary.

BUSINESS STUDENT COUNCIL: will hold symposium seminars concerning "Women in Business" from 8 a.m. to noon in 102 Blocker and from noon to 2 p.m. in 101 Blocker. A luncheon will be held at noon in the College Station Hilton.

INTRAMURAL RECREATIONAL SPORTS: entries for slam-dunk, wallball, pre-season softball and softball are available in 159 Read.

ALPHA ZETA: Dr. L. S. Pope will speak at 7 p.m. in 1154 Berg.

COLLEGIATE 4H: will meet at 8 p.m. in the lounge of the Berg Animal and Food Science Center.

MSC CAMERA CLUB: will meet at 7 p.m. in 206 MSC.

AMERICAN MARKETING ASSOCIATION: will meet at 6:30 p.m. in 165 Blocker.

AGGIE ALLEMANDERS: will hold free square dance lessons from 7 p.m. to 8:30 p.m. in 226 MSC.

SIGMA TAU DELTA: is accepting applications for new members through Feb. 9. Applications are available at the English department office.

FISH CLASS '90 COUNCIL: sign up for class committees at the Student Programs Office.

Tuesday

TAMU EMERGENCY CARE TEAM: will meet at 7 p.m. in 701 Rudder.

PRE-LAW SOCIETY: will meet at 8:30 p.m. in 701 Rudder.

SADDLE & SIRLOIN CLUB: will meet at 7 p.m. in 1154 Berg.

MSC CEPHEID VARIABLE: Aggiecon-18 workers will meet at 8:30 p.m. in 410 Rudder. All those interested in working on Aggiecon-19 should attend.

STUDENT Y: will meet at 6 p.m. in 225 MSC.

STUDENT Y — AGGIE FRIENDS: will meet at 7 p.m. in 701 Rudder.

INTRAMURAL RECREATIONAL SPORTS: entries for racquetball singles and team bowling are available until 4 p.m. in 159 Read.

AMERICAN INSTITUTE OF AERONAUTICS & ASTRO-NAUTICS AND AMERICAN SOCIETY OF MECHANICAL ENGINEERS: Col. Leonard Vernamonti will discuss the National Aero-Space Plane at 7 p.m. in 108 Harrington.

AMERICAN SOCIETY OF AGRONOMY: student section will meet at 7:15 p.m. in 103 Soil and Crop Sciences.

ECONOMICS SOCIETY: will meet at 7 p.m. in 125 Blocker.

MOUNT PLEASANT AREA HOMETOWN CLUB: will meet at 8:30 p.m. in 402 Rudder.

OMEGA PHI ALPHA: will hold a meeting for prospective members at 7 p.m. in 145 MSC.

TAMU ONE-WHEELERS: will meet at 6 p.m. in front of the Rollie White Coliseum.

CAP AND GOWN HONOR SOCIETY: will meet at 7 p.m. in 401 Rudder.

HUMAN FACTORS SOCIETY STUDENT CHAPTER: will meet at 7:30 p.m. in 333-B Zachry.

WILDLIFE BIOLOGY SOCIETY: will meet at 7:30 p.m. in 207 Harrington.

CHRISTIAN SCIENCE ORGANIZATION: will meet at 7 p.m. Tuesdays in the meditation room in the All Faiths Chapel.

MSC FRESHMAN LEADERSHIP DYNAMICS: membership applications are available through Tuesday in 206 MSC.

LIBRARY TOURS: signup sheets are available at the library reference desk. The tours are scheduled for 9 a.m., 11 a.m. and 3 p.m. Mondays, Wednesdays and Fridays at 9:30 a.m. and 11 a.m. on Tuesdays and Thursdays.

PARENTS WEEKEND: applications and schedule forms are available for any group planning an activity. Applications are due Feb. 27.

PARENTS WEEKEND COMMITTEE: applications nominating 1987-88 Parents of the Year are available through Friday in the Commons, Sterling C. Evans Library, the Memorial Student Center and the Pavilion.

Items for What's Up should be submitted to The Battalion at 216 Reed McDonald, no less than three working days prior to desired publication date.